

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
3 March 2005 (03.03.2005)

PCT

(10) International Publication Number
WO 2005/018324 A2

(51) International Patent Classification⁷: **A01N 37/22**,
43/08, 43/16, 43/32, 43/40, 43/58, 37/18, 37/50, 43/54,
43/88, 47/24, 43/78, 43/76

(74) Common Representative: **BASF AKTIENGE-
SELLSCHAFT**; 67056 Ludwigshafen (DE).

(21) International Application Number:
PCT/EP2004/007872

(22) International Filing Date: 15 July 2004 (15.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/497,717 26 August 2003 (26.08.2003) US

(71) Applicant (for all designated States except US): **BASF
AKTIENGESELLSCHAFT** [DE/DE]; 67056 Lud-
wigshafen (DE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BUBERL, Jan**
[DE/US]; 26 Davis Drive, Research Triangle, NC 27709
(US). **BROSCIOUS, Steven** [US/US]; 26 Davis Drive,
Research Triangle, NC 27709 (US). **YPEMA, Hendrik**
[US/US]; 26 Davis Drive, Research Triangle, NC 27709
(US). **MILLHOUSE, David** [US/US]; 10181 Avenue 416,
Dinuba, CA 93618 (US). **HELM, John** [US/US]; 3586 N
del Rey Avenue, Sanger, CA 93657 (US). **BURKDOLL,
Todd** [US/US]; 2461 North Demaree Road, Visalia, CA
93291 (US).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished
upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: METHOD OF PLANT GROWTH PROMOTION USING AMIDE COMPOUNDS

(57) Abstract: A method for treating plants in need of growth promotion, comprising applying to said plants, to the seeds from which they grow or to the locus in which they grow, a non-phytotoxic, effective plant growth promoting amount of an amide compound having the formula A-CO-NR¹R² in which A is an aryl group or an aromatic or non-aromatic, 5- or 6-membered heterocycle which has from 1 to 3 hetero atoms which are selected from O, N and S; where the aryl group or the heterocycle may or may not have 1, 2 or 3 substituents which are selected, independently of one another, from alkyl, halogen, CHF₂, CF₃, alkoxy, haloalkoxy, alkylthio, alkylsulfinyl and alkylsulfonyl; R¹ is a hydrogen atom; R² is a phenyl or cycloalkyl group which may or may not have 1, 2 or 3 substituents which are selected, independently of one another, from alkyl, alkenyl, alkynyl, alkoxy, alkenyloxy, alkynyloxy, cycloalkyl, cycloalkenyl, cycloalkyloxy, cycloalk-kenyloxy, phenyl and halogen, where the aliphatic and cycloaliphatic radicals may be partially or fully halogenated and/or the cycloaliphatic radicals may be substituted by from 1 to 3 alkyl groups and where the phenyl group may have from 1 to 5 halogen atoms and/or from 1 to 3 substituents which are selected, independently of one another, from alkyl, haloalkyl, alkoxy, haloalkoxy, alkylthio and haloalkylthio, and where the amidic phenyl group may or may not be condensed with a saturated 5-membered ring which may or may not be substituted by one or more alkyl groups and/or may have a hetero atom selected from O and S.